

Pranav Minasandra

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Max Planck Institute of Animal Behavior,
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Interests	I am keen on developing novel theories of behaviour in animals and developing methods to answer behavioural questions in creative ways. Particularly, I am interested in the dynamics of behaviour at the fine-scale, and how it connects with social behaviour.	
Education	Max Planck Institute of Animal Behaviour, Konstanz, Germany PhD - International Max Planck Research School of Organismal Biology	2020 onwards
	Indian Institute of Science (IISc), Bengaluru, India - Master of Science in Biology - Bachelor of Science (Research) with a major in Biology	2015 - 2020
Publications	Kunjar, S., Strandburg-Peshkin, A., Giese, H., Minasandra, P. , Sarkar, S., Jolly, M. K., & Gradwohl, N. (2023). Link updating strategies influence consensus decisions as a function of the direction of communication. <i>Royal Society Open Science</i> , 10(6), 230215. Minasandra, P. , Jensen, F. H., Gersick, A. S., Holekamp, K. E., Strauss, E. D., & Strandburg-Peshkin, A. (2023). Accelerometer-based predictions of behaviour elucidate factors affecting the daily activity patterns of spotted hyenas [Under Review]. <i>bioRxiv</i> . Minasandra, P. , & Isvaran, K. (2020). Truncated power-law distribution of group sizes in antelope. <i>Behaviour</i> , 157(6), 541–558.	
Awards and fellowships	DAAD - Graduate Student Scholarship Programme Nominated after evaluation of my proposal €1200 per month for 4 years, as well as additional costs Kishore Vaigyanik Protsahan Yojana <i>All India Rank : 135</i> Includes stipend and contingency	2020 Oct onwards 2015- 2020
Mentorship	Amlan Nayak <i>Master thesis:</i> Spatial Variation of Vigilance in Meerkats. Ananya Passi <i>Summer research:</i> Mathematical modelling of habitat use and population dynamics.	2022 Jun- 2023 Apr 2019 Jun- 2020 May
Teaching	Teaching Assistantship For the course <i>Quantitative Ecology: Research Design and Inference</i> Assisted with coding in R, conducted several classes, graded assignments, managed course website.	2019 Aug - Dec
Contributed talks	Descriptive & Normative Models of Collective Behaviour <i>School of Mathematics, University of Leeds</i> “Looking into hyena daily activity patterns using accelerometers” Animal Behaviour Society - Virtual Seminar 2021 “Behavioural classifier provides insights into spotted hyena behaviour”	2022 June 2021 Aug
Technical skills	<i>Programming languages and related</i> Python, Julia, R, Bash, L ^A T _E X, and C. HTML, CSS, and git.	

Computational skills

Parallel processing; Machine learning; Front-end development in R **Shiny**; Agent-based models;

Mathematical modelling

Models incorporating spatial and stochastic variables; Non-linear dynamics, including population dynamics and evolutionary dynamics; Probability models; Numerical simulations of all the above.

References

Dr Ariana Strandburg-Peshkin,
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Dr Alex L Jordan,
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Dr Vishwesha Guttal,
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